MD 650 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROPOSED SIGNS

23,24

New Hampshire AVE

D-3(1) (VARIABLE x 16")

EXISTING SIGNS TO BE RELOCATED (SHOWN AT FINAL LOCATION)

19,20,21,22

Merrimac Drive

D-3(1) (DUAL FACED) (VARIABLE x 16")

EXISTING SIGNAL HEADS TO BE REMOVED

2a,3a,5a,6a — R, Y, G — 12"

15a,18a — 12"

EXISTING SIGNAL HEADS TO REMAIN

7-10 — R, Y, G — 12"

PROPOSED SIGNAL HEADS

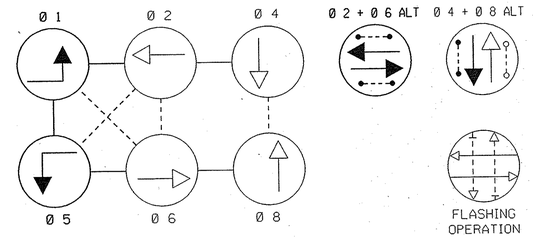
1,4 — 12"/8" LED

2,5 — 12" LED

3,6 — 12" LED

11-18 — 16"

NEMA PHASING



PHASING NOTES:

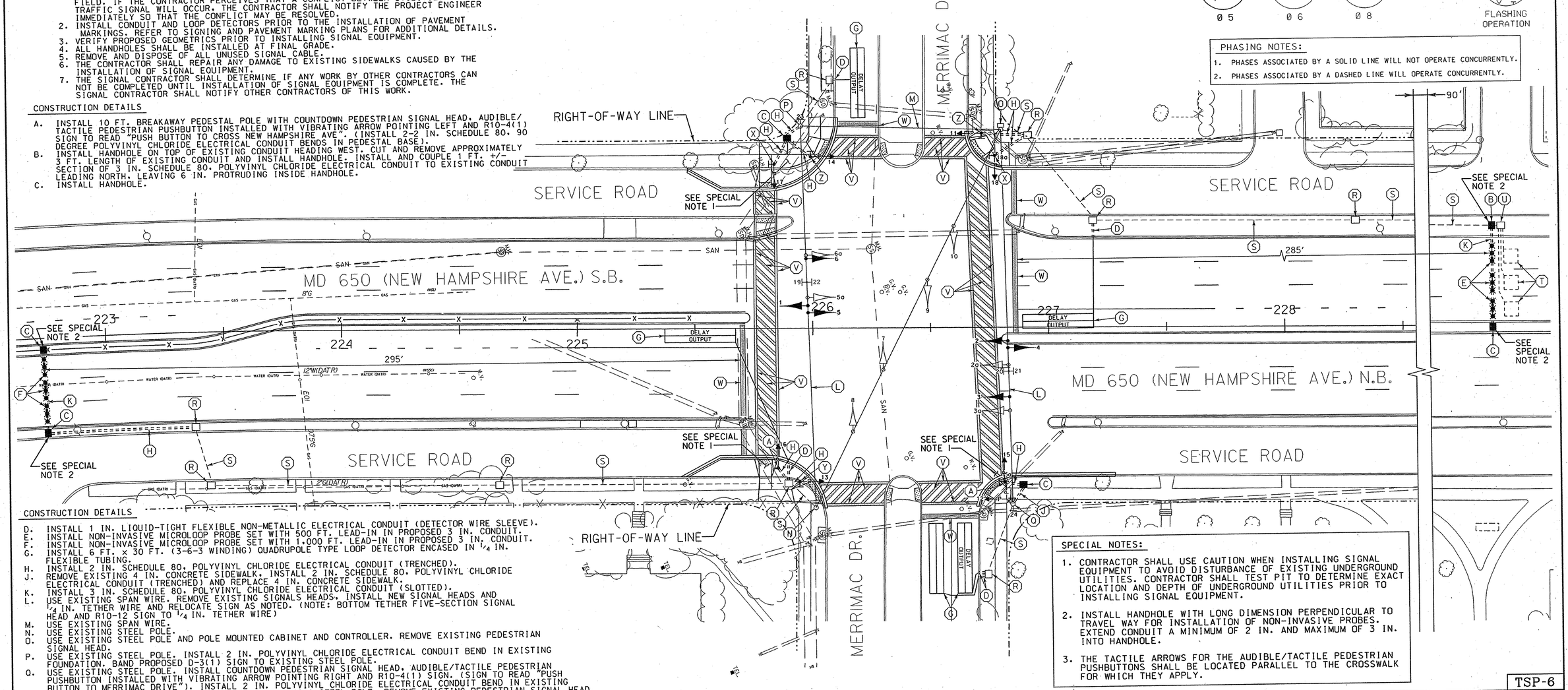
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. INSTALL CONDUIT AND LOOP DETECTORS PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS. REFER TO SIGNING AND PAVEMENT MARKING PLANS FOR ADDITIONAL DETAILS.
3. VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
4. ALL HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
5. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
6. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
7. THE SIGNAL CONTRACTOR SHALL DETERMINE IF ANY WORK BY OTHER CONTRACTORS CAN NOT BE COMPLETED UNTIL INSTALLATION OF SIGNAL EQUIPMENT IS COMPLETE. THE SIGNAL CONTRACTOR SHALL NOTIFY OTHER CONTRACTORS OF THIS WORK.

CONSTRUCTION DETAILS

A. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-4(1) SIGN TO READ "PUSH BUTTON TO CROSS NEW HAMPSHIRE AVE". (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
B. INSTALL HANDHOLE ON TOP OF EXISTING CONDUIT HEADING WEST. CUT AND REMOVE APPROXIMATELY 3 FT. LENGTH OF EXISTING CONDUIT AND INSTALL HANDHOLE. INSTALL AND COUPLE 1 FT. +/- SECTION OF 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT TO EXISTING CONDUIT LEADING NORTH, LEAVING 6 IN. PROTRUDING INSIDE HANDHOLE.
C. INSTALL HANDHOLE.



CONSTRUCTION DETAILS

D. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
E. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 500 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
F. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
G. INSTALL 6 FT. x 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
H. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
J. REMOVE EXISTING 4 IN. CONCRETE SIDEWALK, INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) AND REPLACE 4 IN. CONCRETE SIDEWALK.
K. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
L. USE EXISTING SPAN WIRE. REMOVE EXISTING SIGNALS HEADS. INSTALL NEW SIGNAL HEADS AND 1/4 IN. TETHER WIRE AND RELOCATE SIGN AS NOTED. (NOTE: BOTTOM TETHER FIVE-SECTION SIGNAL HEAD AND R10-12 SIGN TO 1/4 IN. TETHER WIRE)
M. USE EXISTING SPAN WIRE.
N. USE EXISTING STEEL POLE.
O. USE EXISTING STEEL POLE AND POLE MOUNTED CABINET AND CONTROLLER. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD.
P. USE EXISTING STEEL POLE. INSTALL 2 IN. POLYVINYL CHLORIDE ELECTRICAL CONDUIT BEND IN EXISTING FOUNDATION. BAND PROPOSED D-3(1) SIGN TO EXISTING STEEL POLE.
Q. USE EXISTING STEEL POLE. INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO MERRIMAC DRIVE"). INSTALL 2 IN. POLYVINYL CHLORIDE ELECTRICAL CONDUIT BEND IN EXISTING FOUNDATION. BAND PROPOSED D-3(1) SIGN TO EXISTING STEEL POLE. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD.
R. USE EXISTING HANDHOLE.
S. USE EXISTING CONDUIT.
T. ABANDON EXISTING LOOP DETECTOR.
U. REMOVE EXISTING HANDHOLE.
V. INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK).
W. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
X. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-4(1) SIGN TO READ "PUSH BUTTON TO CROSS NEW HAMPSHIRE AVE". (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
Y. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-4(1) SIGN TO READ "PUSH BUTTON TO CROSS MERRIMAC DRIVE". (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
Z. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-4(1) SIGN TO READ "PUSH BUTTON TO CROSS MERRIMAC DRIVE". (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).

SPECIAL NOTES:

1. CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL EQUIPMENT TO AVOID DISTURBANCE OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL TEST PIT TO DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGNAL EQUIPMENT.
2. INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN. INTO HANDHOLE.
3. THE TACTILE ARROWS FOR THE AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS SHALL BE LOCATED PARALLEL TO THE CROSSWALK FOR WHICH THEY APPLY.

TSP-6

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	SS
STORM DRAIN	SD
WATER	W
CABLE TV	TV

WR&A
Whitman, Requardt and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

REVISIONS	APPROVALS
B INSTALL E/P LEFT TURNS ON MD 650 REPLACE LOOPS AND PROBES SHA. NO.: M033351B4 4/18/06 SRB NML	TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION
A REBUILD SIGNAL USING MAST ARMS (THIS REVISION WAS NEVER BUILT) SHA. NO.: 855-25003 ERS DD EP MS	ASST. TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNALIZATION PLAN MD 650 AND MERRIMAC DRIVE

DRAWN BY: G. COOK	F.A.P. NO. U-134-1(1)	TS NO. 679 B	SHEET NO.
CHECKED BY:	S.H.A. NO. P-343-001-385	T.I.M.S. NO. G150	53 OF 85
SCALE: 1" = 20'	COUNTY: PRINCE GEORGES		
DATE: 8/23/72	LOG MILE: 16.065D02.14		

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